

Special Issue

Human Biomonitoring in Health Risk Assessment: Current Practices and Recommendations for the Future

Message from the Guest Editor

Human Biomonitoring (HBM) is an important and useful tool for assessing the internal exposure of humans resulting from aggregated exposure to chemicals. Though there are still a number of obstacles that hinder the use of HBM data in a HRA, the growing availability of HBM data offers an opportunity for improving and refining RA. This Special Issue intends to illustrate, using case studies, how HBM data can be used to better estimate internal exposure and resulting risks. Case studies either on exposure from the use of consumer products (cosmetic products, non-food products, etc.) or from exposures via food or water, in the general population or among workers, will contribute to better identifying the hurdles that prevent a broader use of HBM data in RA. New tools such as physiologically-based pharmacokinetic (PBPK) models, derivations of health-based guidance values, new approaches for integrating HBM with in vitro/in silico data, and adverse outcome pathways (AOP), by providing more accurate data on actual internal exposure, could improve HRA. The articles in this Special Issue are expected to give recommendations on the most suitable approaches for generating more reliable HRA.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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